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## MPD-DS-WML-CB-3P-4W-480Y.277-2500A-50K-DF-BM-N3R

# 2500 Amp Enclosed Circuit Breaker Disconnect, 480Y/277V AC Wye, 3-Pole, 50 kAIC, Thru-Door Handle, Wall Mount, NEMA 3R, Arc Energy Reduction and GFCI

**Product ID: 321016**




Image: MPD-DS-WML-CB-3P-4W-480Y.277-2500A-50K-DF-BM-N3R

**Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.**

**MPD-DS-WML-CB-3P-3W-480Y.277-2500A-50K-DF-BM-N3R Enclosed Circuit Breaker**

**Unit Type:** Enclosed Circuit Breaker w/ Through Door Rotary Handle
**Line-In:** N/A (customer provided)
**Line-In Cord Cap:** N/A (customer provided)
**Line-In Connections:** Terminal Lugs, Accepts 750MCM-1/0
**Line-In Orientation:** Bottom Feed
**Voltage (V):** 480V AC Delta or Wye
**Phase (PH):** 3-Phase
**Frequency (Hz):** 60 Hz (60-Cycles)
**Protection Method:** Arc Energy Reduction and GFCI
**Protection Type:** N/A (customer provided)
**Protection Ampacity:** 2500 Amps
**Mains Rating (Amps):** 2500A
**Breaker Frame Size:** 2500 AF
**Interrupting Rating:** 50 kAIC @ 480V AC
**Horsepower (Standard):** -
**Horsepower (Max):** -
**Disconnect Means:** Manual via Handle
**Neutral Connection:** -
**Line-Out:** N/A (customer provided)
**Line-Out Cord Cap:** N/A (customer provided)
**Line-Out Connection:** Terminal Lugs
**Line-Out Orientation:** Bottom Feed
**Form Factor:** Rectangular, Slim-profile Enclosure w/ Lockable Door & Through Door Rotary Handle
**Door:** (1) Left Hinged Door w/ Pad Lockable Handle & Through Door Rotary Handle

**Ratings**

NRTL Listed Service Equipment
NRTL Listed Circuit Breaker
NEMA 3R Rated for Indoor and Outdoor Use
Made in the USA

**Enclosure Material:** Sheet Steel
**Enclosure Finish:** ANSI 70 Grey
**Enclosure Type:** NEMA 3R
**Mount:** Wall Mount
**Dimensions:** -
**Weight:** -
**Shipping Dimensions:** -
**Shipping Weight:** -

**Special Orders - Special Requirements**
Contact us for special requirements
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Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

*All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250*

Due to supply chain constraints, some units may utilize some refurbished internal components.

**Made in the USA**

**The MPD-DS-WML-CB-3P-3W-480Y.277-2500A-50K-DF-BM-N3R from Larson Electronics is an Enclosed Circuit Breaker Disconnect w/ Through Door Rotary Handle that is designed for reliable, safe, and convenient overload and short circuit protection at industrial work sites. Designed for wall mounting installations, the enclosed circuit breaker is protected by a NEMA 3R rated, steel enclosure.**

***PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS****

The MPD-DS-WML-CB-3P-3W-480Y.277-2500A-50K-DF-BM-N3R enclosed circuit breaker provides a safe and reliable way for operators in industrial settings to utilize protection against short circuits and overloads. Compatible with three-phase 480Y/277V AC Wye, the DC circuit breaker features a through door rotary handle. This 3-pole, 3-wire circuit breaker carries a 50 kAIC at 600V AC interrupt rating.

**Operation:** The enclosed circuit breaker features a locking door. The door provides access to a permanently attached rotary operating handle, which is used for manually turning the circuit breaker on or off without opening the door. The thru-door handle allows for lockout/tagout operations.

**Enclosure Design:** The enclosed circuit breaker disconnect is protected from the elements via a steel weatherproof enclosure with drip shield and finished in an ANSI 70 light grey powder coating. Equipped with a hinged locking door, the disconnect breaker carries a NEMA 3R rating for use in indoor or outdoor locations and protection from water, debris, corrosion, and external ice formation. This enclosure provides protection against falling rain and light ice formation. The NEMA 3R rated enclosure prevents beating rain from interfering with the successful operation of the apparatus or result in wetting of live parts and wiring within the enclosure under specified conditions. This unit is compatible with wall mounting installations.

**Circuit Protection Types:** There are several options available when it comes to overload and short circuit protection. Three of the most common types are fused disconnects, enclosed circuit breakers, and non-fused disconnects. A fused disconnect combines a switch to

disconnect the circuit and a fuse that shuts the circuit down in the event of a problem such as an overload or short circuit. In the event that the fuse is activated, it must be replaced in order to restore power. A non-fused disconnect lacks the fuses of a fused disconnect, but otherwise operates in the same way.

A circuit breaker combines the function of a switch and overcurrent disconnect into one device. If maintenance, repairs, or inspections need to be done on the circuit or connected equipment, a circuit breaker can be manually turned off. When a short circuit or overload is detected, an electromagnet turns the circuit breaker off automatically. It must then simply be turned back on to restore power once the issue has been corrected. An enclosed circuit breaker provides an extra layer of protection from the elements and other environmental conditions as well additional safety for personnel. A certified electrician can provide advice on which type of circuit protection is best for any specific circumstance.

**Mount:** Operators can mount the enclosed circuit breaker on walls.

**Customization:** The MPD-DS-WML-CB-3P-3W-480Y.277-2500A-50K-DF-BM-N3R can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the enclosed circuit breaker portable and certified to NRTL UL 1640 for portable equipment

• Adding single pole camlock connectors for quick connections

• Adding heaters for cold environments

• Aiding alarm relays for trip notification down stream

• Adding powering meters

• Adding Arc Energy Reduction

• Adding GFCI Protection

**Applications:** This enclosed circuit breaker is suitable for indoor/outdoor use and applications including, but not limited to, construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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# Frequently Asked Questions (FAQ)

There are no Faqs